

=> fil reg

FILE 'REGISTRY' ENTERED AT 11:13:40 ON 08 JUL 2005

=> d his ful

EIC 1700

Search

May

FILE 'LREGISTRY' ENTERED AT 09:23:34 ON 08 JUL 2005

L1 STR
L2 STR
L3 STR

FILE 'REGISTRY' ENTERED AT 09:27:56 ON 08 JUL 2005

L4 3 SEA SSS SAM L1
L5 SCR 2043
L6 1 SEA SSS SAM L1 AND L5
D SCAN
D QUE STAT L6
L7 STR L2
L8 0 SEA SSS SAM L3 AND L7 AND L5
D QUE STAT L8
L9 STR L7
L10 1 SEA SSS SAM L9 AND L5
D SCAN
D QUE L9
D QUE STAT L10
D SCAN
L11 460 SEA SSS FUL L9 AND L5
SAV L11 YAM638/A
L12 STR L3
L13 STR L7
L14 0 SEA SUB=L11 SSS SAM (L12 AND L13)
L15 7 SEA SUB=L11 SSS SAM L1
D SCAN
D QUE STAT L14
D QUE STAT L15
L16 81 SEA SUB=L11 SSS FUL L1
L17 33 SEA SUB=L11 SSS FUL (L12 AND L13)
SAV L16 YAM638A/A
SAV L17 YAM638B/A

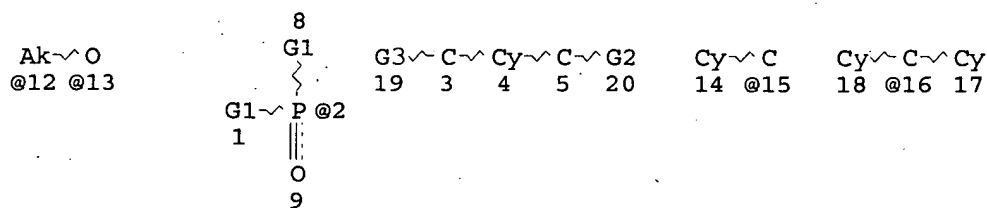
FILE 'HCAPLUS' ENTERED AT 10:46:35 ON 08 JUL 2005

L18 41 SEA ABB=ON PLU=ON L16
L19 13 SEA ABB=ON PLU=ON L17
L20 1 SEA ABB=ON PLU=ON US20040038076/PN
L21 1 SEA ABB=ON PLU=ON L20 AND L18
L22 1 SEA ABB=ON PLU=ON L20 AND L19
L23 24 SEA ABB=ON PLU=ON L18 AND (?LUMINE? OR LIGHT? OR
?EMIT? OR EL OR E(W)L OR L(W)E(W)D OR OLED OR LED OR
LUMIN? OR OEL)
D FHITSTR
D FHITSTR 2-3
L24 17 SEA ABB=ON PLU=ON L18 NOT L23
D FHITSTR 1-3
D FHITSTR 4-6
SEL L18 HIT RN 1-
L*** DEL 11 S L18 AND L19
L25 30 SEA ABB=ON PLU=ON L18 NOT L19

FILE 'REGISTRY' ENTERED AT 11:13:40 ON 08 JUL 2005

FILE LREGISTRY

USHA SHRESTHA EIC 1700 REM 4B28



VAR G1=12/13/CB

VAR G2=2/15

VAR G3=2/16

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

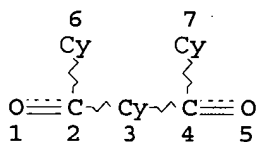
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

L11 460 SEA FILE=REGISTRY SSS FUL L9 AND L5

L12 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

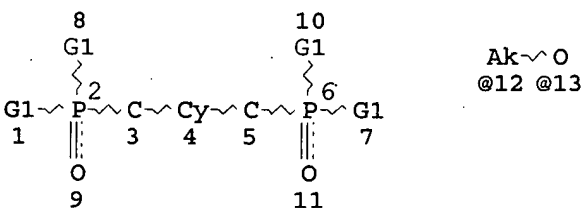
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

L13 STR



VAR G1=12/13/CB

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L17 33 SEA FILE=REGISTRY SUB=L11 SSS FUL (L12 AND L13)
L19 13 SEA FILE=HCAPLUS ABB=ON PLU=ON L17

=> fil hcap
FILE 'HCAPLUS' ENTERED AT 11:14:10 ON 08 JUL 2005

=> d 125 1-30 ibib abs hitstr hitind

L25 ANSWER 1 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:715504 HCAPLUS
DOCUMENT NUMBER: 143:49998
TITLE: Effective Stimulated Emission Cross-Sections
of Poly(Phenylene Vinylene) Copolymers in
Toluene Solution
AUTHOR(S): Manaa, H.; Henari, Fryad Z.; Al-Saie, Ahmed;
Maier, Stefanie; Blau, Werner J.
CORPORATE SOURCE: Department of Physics, College of Science,
University of Bahrain, Bahrain, 32038, Saudi
Arabia
SOURCE: Optical and Quantum Electronics (2004), 36(9),
819-826
CODEN: OQELDI; ISSN: 0306-8919
PUBLISHER: Kluwer Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The authors report optical gain measurements in four different
copolymers poly{p-phenylene-co-[2,5-dioctyloxy-p-phenylene-bis-2(4-
nonylphenyl)vinylene]} nonyl-PpPV, poly{m-phenylene-co-[2,5-
dioctyloxy-p-phenylene-bis-2(4-methylphenyl)vinylene]}methyl-PmPV,
poly{p-phenylene-co-[2,5-dioctyloxy-p-phenylene-bis-2(4-methyl-
phenyl)vinylene]} Me-PpPV, poly{p-phenylene-co-[2,6-naphthylene-
bis-2(4-nonyl phenyl) vinylene]} nonyl-PpPV-NV in toluene. The
copolymers are related to poly(phenylene vinylene) and were
synthesized via Horner-Emmons polycondensation reaction. The
optical gain determined from the amplified spontaneous emission (ASE)
intensity is dependent on the excited stripe length. The net
optical gain coeffs. vary between 0.1 cm⁻¹ in nonyl-PpPV to 2.5
cm⁻¹ in Me-PmPV under nanosecond pulse excitation. The gain for
Rhodamine 6G was also measured under the same exptl. condition and
was used to determine the stimulated emission cross sections for the
four polymers and is ΣSE (peak) = $6.7 + 10^{-20}$ cm² for
nonyl-PpPV, ΣSE (peak) = $1.7 + 10^{-18}$ cm² for Me-PmPV,
 ΣSE (peak) = $1.4 + 10^{-18}$ cm² for Me-PpPV, and
 ΣSE (peak) = $1.5 + 10^{-18}$ cm² for nonyl-PpPV-NV.

IT 241490-23-3 241490-30-2 350610-69-4
350610-84-3

(effective stimulated emission cross-sections of poly(phenylene
vinylene) copolymers in toluene solution and gain for dye mols.)

RN 241490-23-3 HCAPLUS

CN Poly[2,6-naphthalenediyl[2-(4-nonylphenyl)-1,2-ethenediyl]-1,4-
phenylene[1-(4-nonylphenyl)-1,2-ethenediyl]] (9CI) (CA INDEX
NAME)